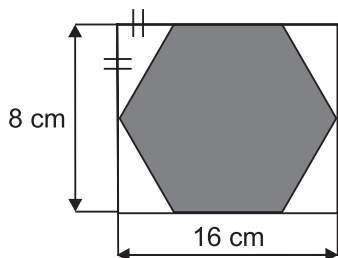


MATHEMATICS

11. Which multiplication is not correct?

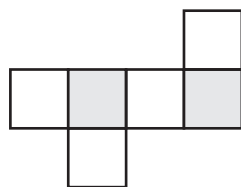
- (1) $\left(\frac{1}{4}\right) \times 4.121 = 2600$ ml
 (2) $\left(\frac{2}{3}\right) \times 2.191 = 1460$ ml
 (3) $\left(\frac{3}{4}\right) \times 31 = 2250$ ml
 (4) $\left(\frac{4}{5}\right) \times 21 = 1600$ ml

12. I cut four congruent triangles of the corners of a rectangle to make a hexagon. What part of the initial shape was removed?



- (1) $\frac{1}{4}$ (2) $\frac{1}{4}$
 (3) $\frac{1}{4}$ (4) $\frac{4}{20}$

13. Which one of the following



solids can be formed from this net shown?

- (1) (2)
 (3) (4)

14. Ms. Nancy recorded the time in which her 15 students completed a set of math problems.

Time in seconds: 32 38 59 43 52 46 49 50 35 58 57 53 33 46 47

Time she presented the record as shown below.

Time in seconds	Number of students
30-39	
40-49	
50-59	?

How many tally marks should she write in the row for 50-59 seconds?

- (1) ||| (2) |||
 (3) ||| (4) |||

15. John wants to buy as many bags of cacao as possible. A bag costs ₹ 28. He gives the seller ₹ 100. How much change does the seller give to John?

- (1) ₹ 12 (2) ₹ 18
 (3) ₹ 16 (4) ₹ 14

16. A tree was planted in 1798. How old will it be in 2020?

- (1) 228 years
 (2) 218 years
 (3) 220 years
 (4) 222 years

17. Find the smallest number which when divided by 6, 8, 12, 15 and 20 leaves the same remainder 5.

- (1) 120 (2) 110
 (3) 125 (4) 115

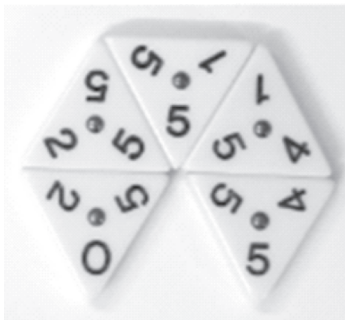
18. A shopkeeper mixed 4.8 kg of hazelnuts with 0.48 kg of raisins. He packed the mixture equally into 4 boxes. What is the weight of each box?

- (1) 1.32 kg (2) 1.35 kg
 (3) 0.87 kg (4) 0.72 kg

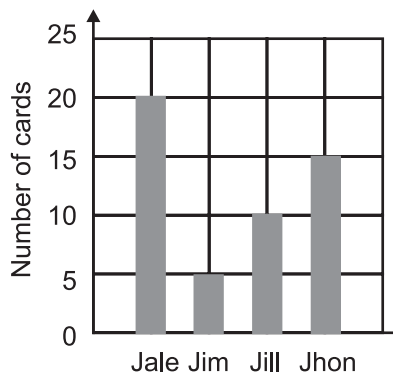
19. "BODMAS" formula acts first on?

- (1) of (2) Brackets
 (3) X (4) ÷

20. There are 555 students in a school. How many desks does the school need if two children sit at each desk?
- (1) 278 (2) 277
(3) 288 (4) 287
21. In which of the following cases is a triangle not possible with the given group of angles?
- (1) 60° 48° 72° (2) 59° 60° 61°
(3) 88° 61° 31° (4) 90° 50° 30°
22. What triangle is missing?



- (1) 0 – 5 – 5 (2) 0 – 0 – 5
(3) 0 – 5 – 2 (4) 0 – 2 – 4
23. At a local school students sold post cards for a fundraiser. The bar graph shows how many cards were sold by each student.



How many cards did the students sell in all?

- (1) 60 cards (2) 20 cards
(3) 50 cards (4) 45 cards
24. Find the distance between two stations if a train travelling nonstop at 75km/hour covers the distance between the station in 20 minutes.
- (1) 26 km (2) 30 km
(3) 25 km (4) 15 km

25. Four sisters are all 3 years apart. The youngest is only 4 years. How old is the eldest sister?
- (1) 13 years old (2) 10 years old
(3) 11 years old (4) 12 years old
26. What is the value of 123 plus 123 tens plus 123 hundreds?
- (1) 13563 (2) 13653
(3) 15633 (4) 13653
27. A team has 90 rupees to buy balls. One ball costs ₹ 7. The team gets fifth for half price. What is the largest number of balls the team can get?
- (1) 15 balls (2) 12 balls
(3) 14 balls (4) 13 balls
28. A beaker is $\frac{4}{7}$ filled with water. Another 12 litres of water is needed to fill the beaker to its brim. What is the capacity of the beaker?
- (1) 50 litres
(2) 28 litres
(3) 42 litres
(4) 35 litres
29. Thomas has 24 meters of fence and wants to make a rectangular yard with the largest area. What size should he make the yard?
- (1) 6 meters by 6 meters
(2) 9 meters by 3 meters
(3) 8 meters by 4 meters
(4) 5 meters by 5 meters
30. Find the third number at the base of the pyramid if each number is the sum of the two numbers directly below it.

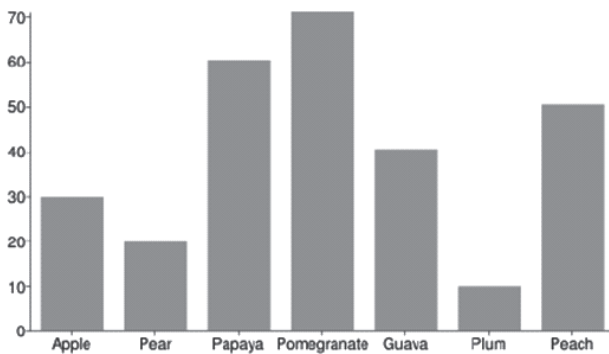


- (1) 5 (2) 2
(3) 6 (4) 4

INTERACTIVE SECTION


31. The largest factor of any number is:
- (1) Hundred (2) The number itself
(3) Ten (4) One
32. How many times during 12 hour period does the hour hand and the minute hand of the clock cross each other?
- (1) 10 (2) 1
(3) 12 (4) 11
33. Which of the following is correct?
- (1) $300 + 26 = 302 + 6$ (2) $300 + 26 = 306 + 20$
(3) $300 + 26 = 30 + 26$ (4) $300 + 26 = 360 + 2$

34. The following bar chart shows the number of fruits in a shop.



There are _____ less pears than papayas?

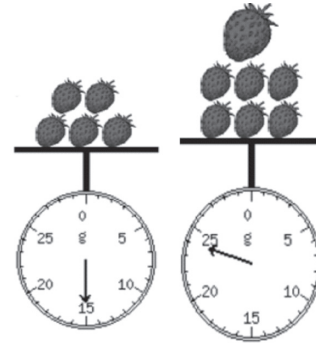
- (1) 50 (2) 60
(3) 40 (4) 30
35. A car can travel 400 km on 40 litres of petrol. How far can the car travel if it has 50 litres of petrol in its petrol tank?
- (1) 360 km (2) 189 km
(3) 525 km (4) 500 km

36. There are  three separate large red boxes, and inside each large box there are two separate small blue boxes, inside each of these small boxes there is one smaller green box.



How many boxes are there altogether?

- (1) 9 (2) 18
(3) 12 (4) 15

37. What is the weight of big strawberry?



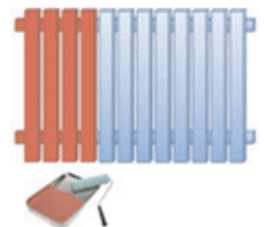
- (1) 10 g (2) 9 g
(3) 8 g (4) 6 g
38. Sixteen teams enter a hockey tournament. If there can be no draws, how many games must be played if each team can be eliminated by one loss?
- (1) 21 (2) 16
(3) 12 (4) 15
39. Diagram below shows the prices of three items.

			
₹ 120	₹ 107	₹ 345	?

The price of a camera is $\frac{3}{4}$ of the total price of 3 items. Find the total price of all the items.

- (1) ₹ 1100 (2) ₹ 1091
(3) ₹ 1001 (4) ₹ 991
40. Aman has started painting a fence. By twelve O'clock he has painted this much of fence:

- (1) $\frac{1}{3}$
(2) $\frac{1}{4}$
(3) 0.33
(4) $\frac{3}{4}$



END OF THE EXAM